Module Proforma

Proposed, 2024.01

Summary Information

Module Code	7522CATSCI
Formal Module Title	Introduction to Sustainability and Adaptation
Owning School	Biological and Environmental Sciences
Career	Postgraduate Taught
Credits	15
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Sarah Dalrymple	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

Partner Teaching Institution

Institution Name
Centre for Alternative Technology

Learning Methods

Learning Method Type	Hours
Lecture	20
Practical	2
Seminar	8

Aims and Outcomes

Aims	a) This module will introduce students to the key skills and concepts required to fully consider sustainability and adaptation issues. b) Contextualize society responses to environmental change. c) Establish the overarching concepts and theoretical grounding in sustainability, resilience and transformational adaptation needed for the programme of study. d) Establish baseline study skills competence and scientific/social science literacy. e) Appreciate the implications of sustainable provision and security of services such as homes, water, energy, food and transport.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Form a synthesis of knowledge in relation to current environmental change and range of responses.
MLO2	Critically analyse interactions, co-impacts and co-benefits across key areas of importance in responding to environmental change.

MLO3	Apply a critical approach in considering sustainability and adaptation practices.

Module Content

Outline Syllabus
Greenhouse gas impacts and options. Mitigation and adaptation needed to respond to environmental change and weather extremes. Sustainability issues relating to both consumption and the provision of services such as housing, food and energy. Fundamentals of social and economic transformation models including non-growth economics, social value, behaviour change and systemic change. Interrelationships of climate mitigation and adaptation, biodiversity, justice wellbeing and prosperity.

Module Overview

Additional Information

Indicative references:

Adger, W.N., Lorenzoni I., and O'Brien K.L., (2010) Adapting to Climate Change, Thresholds, Values, Governance, Cambridge University Press, Cambridge.

Adger, W.N., Paavola J., Huq S., and Mace, M.J., (2005) Fairness in Adaptation to Climate Change, MIT Press, Cambridge MA.

Castree, N., Hulme, M. and Proctor, J. D. (2018) Companion to Environmental Studies. Routledge.

Ensor J. and Berger R. (2009), Understanding Climate Change Adaptation, Lessons from community-based approaches, Practical Action Publishing, Rugby.

Lonsdale, K., Pringle, P. & Turner, B. (2015). Transformative adaptation: what it is, why it matters & what is needed. UK Climate Impacts Programme, University of Oxford, Oxford, UK

Roaf, S. (2009) Adapting buildings and cities for climate change : a 21st century survival guide. 2nd ed. Oxford: Elsevier.

Pelling M. (2011) Adaptation to Climate Change, From resilience to transformation; Routledge, Abingdon.

Pelling, M O'Brien, K. and Matyas, D (2015) Adaptation and transformation. Climatic Change, 133(1), pp. 113-127.

Schipper E.L.F., and Burton I., editors. (2008), The Earthscan Reader on Adaptation to Climate Change, Earthscan, London.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Essay	Critique Review	100	0	MLO1, MLO2, MLO3